

9/3

Notice of Allowability

Application No.

09/817,777

Examiner

TUAN A PHAM

Applicant(s)

BAILEY, RICHARD H.

Art Unit

2643

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 08/16/2004.
2. ☒ The allowed claim(s) is/are 19-30, 32-39 and 41-47.
3. ☒ The drawings filed on 03/26/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


CURTIS KUNZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

REASONS FOR ALLOWANCE

1. Claims 19-30, 32-39, and 41-47 are allowed over the prior art of record.
2. The following is an examiner's statement of reasons for allowance:

The applicant's remarks filed on 08/16/2004 have been carefully reviewed with an update search. Consequently, the new found references teaches as following:

Bella (U.S. Patent No.: 6,137,880) teaches the passive splitter filter for digital subscriber line comprising, a first filter capacitor including a first lead and a second lead (see figure 5, capacitor C11, col.7, ln.49-60); a first non-isolated inductor including a first winding and a second winding (see figure 5, inductor L3, col.7, ln.49-60); and an isolated inductor including a first winding and a second winding (see figure 5, inductor L2), the first winding of the isolated inductor connected in series with the first winding of the first non-isolated inductor and to the first lead of the first filter capacitor, the second winding of the isolated inductor connected in series with the second winding of the first non-isolated inductor and to the second lead of the first filter capacitor (see figure 5, L2, L3, capacitor C11, col.7, ln.49-60).

Eckert (U.S. Patent No.: 6,473,507) teaches a low pass filter comprising, the first non-isolated inductor has a respective DC saturation current and the isolated inductor has a respective DC saturation current (see col.7, ln.47-65, col.8, ln.1-45, col.10, ln.60-67).

DeCramer et al. (U.S. Pub. No.: 2002/0041676) teaches a POTS splitter comprising, common mode choke, a first and second capacitors, and first and second isolate inductors (see figure 3, col.2, [0020]).

Snow et al. (U.S. Patent No.: 6,418,221) teaches a low pass filter comprising a multi stage (see figure 2, col.2, ln.1-20).

However, the prior art made of record fails to teach or suggest, in combination, the arrangement of an ADSL POTS splitter including an enhanced low pass filter comprising: a first filter capacitor, a first non-isolated inductor, a second non-isolated inductor connected to the first non-isolated inductor, a first isolated inductor connected to the first non-isolated inductor, wherein the DC saturation current of the first non isolated inductor being substantially greater than the DC saturation current of the isolated inductor for achieving higher inductance in the isolated inductor, a second isolated inductor connected to the first isolated inductor and including a first winding and a second winding, the first winding of the second isolated inductor connected in series with the first winding of the first isolated inductor, the second winding of the second isolated inductor connected in series with the second winding of the first isolated inductor; and a common mode choke connected between the first non-isolated inductor and the first filter capacitor, the common mode choke including a first winding and a second winding, the first winding of the common mode choke connected in series with the first winding of the first non-isolated inductor and with the first winding of the first isolated inductor, the second winding of the common mode choke connected in series with the second winding of the first non isolated inductor and with the second winding of the first isolated inductor, in combination with other limitations, as specified in the independent claims 19, 25, 32, and 41, and further limitations of their respectively dependent claims 20-24, 26-30, 33-39, and 42-47.

Art Unit: 2643

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Tuan A. Pham** whose telephone number is (703) 305-4987 and E-mail address is: **tuan.pham@USPTO.GOV**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Curtis Kuntz, can be reached on (703) 305-4708 and

IF PAPER HAS BEEN MISSED FROM THIS OFFICIAL ACTION PACKAGE, PLEASE CALL Customer Service at (703) 306-0377 FOR THE SUBSTITUTIONS OR COPIES.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington VA, Sixth Floor (Receptionist, tel. No. 703-305-4700).

Art Unit 2643

Date: October 18, 2004

Examiner

Tuan Pham


CURTIS KUNTZ
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